News Release

Joint Program Executive Office, Joint Tactical Radio System
Contact: Steven A. Davis
Desk: 619.524.3432 / Mobile: 619.208.7195
steven.a.davis@navy.mil

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JPEO JTRS Awards
Small Business Innovation Research Contracts

SAN DIEGO - The Joint Program Executive Office (JPEO) Joint Tactical Radio System (JTRS) has awarded six Small Business Innovation Research (SBIR) Phase II contracts to develop technologies and capabilities planned for transition into the JTRS tactical wireless communications and networking family of acquisition programs. Leveraging the agility and creativity of small businesses, JPEO JTRS is seeking to support the development of the U.S. industrial base in the emerging field of Software Defined Radios (SDRs), in addition to obtaining cost-effective, cutting-edge products to address Department of Defense requirements.

Coherent Logix Inc., Austin, Texas, has been awarded a $2,058,725 SBIR contract (N00039-08-C-0092) to demonstrate the capabilities of its HyperX Digital Signal Processor technology in SDR applications. Coherent Logix' team includes General Dynamics C4 Systems, Scottsdale, Ariz., the prime vendor for the JTRS Handheld, Manpack, and Small Form-Factor (HMS) radio product line, and TrellisWare Technologies, San Diego, Calif., a communications waveform and signal processing specialist. The JTRS HMS product line includes nine variants of radios and associated accessories optimized for mobile tactical operations and vehicles.

Mayflower Communications Company Inc., Burlington, Mass., has been awarded a $739,686 SBIR Phase II contract (N00039-07-C-0047) to enhance the capabilities of its compact, low-cost, low-power consumption Selective Availability Anti-Spoofing Module Global Positioning System receiver. This assembly will be compatible with the Ground-Based GPS Receiver Application Module standard to facilitate integration into embedded military applications such as the JTRS HMS tactical radio product line.

SCA Technica Inc., Nashua, N.H., a Veteran-owned SBA certified 8(A) Small Disadvantaged Business, has been awarded a $727,722 SBIR contract (N00039-07-C-0087) to develop enhancements to the high-assurance networking capabilities of JTRS waveforms. Products being produced include a high-assurance common reference architecture and development platform for next generation waveforms; high-assurance networking stacks and operating environment waveform stacks utilizing SCA Technica's High Assurance Wireless Computing System technology; and the results of technical investigation into high-assurance Mobile Ad-hoc Networking algorithms for joint operations. SCA Technica's teammates include Spectrum Signal Processing, Columbia, Md., General Dynamics C4 Systems, Scottsdale, Ariz., and Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Va. This contract is under the oversight of the JTRS Network Enterprise Domain program.

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MegaWave Corporation, Boylston, Mass., has been awarded a $564,581 SBIR Phase II contract (N00039-07-C-0056) to develop soldier-borne antennas for the emerging Mobile User Objective System satellite communications system, which will greatly increase beyond line-of-sight communications capability at the tactical edge. Under the oversight of the JTRS HMS program, MegaWave will develop and produce prototype antenna designs for each of four operational concepts.

Texas Research Institute – Austin (TRI – Austin), Austin, Tex. has been awarded a $600,000 SBIR contract (N00039-08-C-0023) to develop a lightweight manpack radio enclosure using composite materials. The objective of this project is to decrease the weight burden for the Warfighter without compromising the durability of the radio or increasing procurement costs. Major subcontractors include custom tool and plastic injection molding specialist Gate Mold Inc., Round Rock, Tex., and General Dynamics C4 Systems, Scottsdale, Ariz.

STI Electronics Inc., Madison, Ala., has been awarded a $798,871 SBIR Phase II contract (N00039-08-C-0048) to develop an integrated radio frequency/digital circuit card assembly utilizing Imbedded Component/Die Technology (IC/DT®). The IC/DT® assembly will enable a reduced size and weight implementation of a digital circuit card within the MIDS JTRS. MIDS JTRS is a multi-channel, Software Communications Architecture compliant radio capable of hosting the NATO Link-16 standard and required legacy and JTRS tactical radio communications and wireless networking capabilities. This project will be under the oversight of the MIDS Program Office.

The Space and Naval Warfare Systems Center, San Diego, Calif., is the contracting activity for all awarded contracts.

About JPEO JTRS

The Joint Tactical Radio System, headquartered in San Diego, Calif, was initiated in early 1997 to improve and consolidate the Services' pursuit of separate solutions to replace existing legacy radios in the Department of Defense inventory. The JTRS program has evolved from separate radio replacement programs to an integrated effort to network multiple weapon system platforms and forward combat units where it matters most – the last tactical mile. JTRS will link the power of the Global Information Grid to the warfigther in applying fire effects and achieving overall battlefield superiority.

JTRS is developing an open architecture of cutting edge radio waveform technology that allows multiple radio types (e.g., handheld, aircraft, maritime) to communicate with each other. The goal is to produce a family of interoperable, modular software-defined radios which operate as nodes in a network to ensure secure wireless communication and networking services for mobile and fixed forces. These goals extend to U.S. allies, coalition partners and, in time, disaster response personnel.